

Amendment to the Claims

1. (Original) A method for reducing the peak-to-average power ratio of a communication signal comprising the steps of:

- (a) sequencing a data signal according to a data vector to thereby create a sequenced data signal;
- (b) modulating a first plurality of carrier waves at a second plurality of frequencies with said sequenced data signal to thereby create a modulated signal;
- (c) measuring the peak-to-average power ratio of the modulated signal;
- (d) comparing said power ratio with a predetermined threshold;
- (e) if said power ratio exceeds said predetermined threshold, sequencing said data signal according to a data vector different from previous data vectors to thereby create a sequenced data signal different from previous sequenced data signals and repeating steps (b)-(e) until said power ratio does not exceed said predetermined threshold;
- (f) if said power ratio does not exceed said predetermined threshold, appending to the modulated signal a data map signal associated with the data vector for which said power ratio does not exceed said predetermined threshold to thereby create an appended signal;
- (g) sampling said appended signal;
- (h) reducing amplitude of said samples which exceed a predetermined range to thereby create a reduced amplitude signal;

(i) filtering said reduced amplitude signal to thereby create said communication signal with a reduced peak-to-average power ratio.

2. (Original) The method to claim 1, further comprising the step of reducing amplitude of samples adjacent to the samples exceeding the threshold.

3.-13. (Cancelled)